

**Declaration and Power of Attorney for Patent Application  
English Language Declaration**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE**

the specification of which

(check one)

is attached hereto.  
 was filed on October 2, 2001 as United States Application No. or PCT  
Application No. 09/970,224  
and was amended on \_\_\_\_\_  
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

_____	_____	_____	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
_____	_____	_____	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
_____	_____	_____	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

(Application Serial No.) \_\_\_\_\_ (Filing Date) \_\_\_\_\_

(Application Serial No.) \_\_\_\_\_ (Filing Date) \_\_\_\_\_

(Application Serial No.) \_\_\_\_\_ (Filing Date) \_\_\_\_\_

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(patented, pending, abandoned)

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

David G. Conlin	Reg. No. 27,026	Christine C. O'Day	Reg. No. 38,256
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Linda M. Buckley	Reg. No. 31,003	David E. Tucker	Reg. No. 27,840
Peter J. Manus	Reg. No. 26,766	Lisa Swiszcz Hazzard	Reg. No. 44,368
Peter F. Corless	Reg. No. 33,860	George W. Hartnell	Reg. No. 42,639
Cara Z. Lowen	Reg. No. 38,227	Kathleen Carr	Reg. No. 41,658
William J. Daley, Jr.	Reg. No. 35,487	Stewart L. Gitler	Reg. No. 31,256
Steven M. Jensen	Reg. No. 42,693	Kathryn A. Piffat	Reg. No. 34,901
John B. Alexander	Reg. No. 48,399		

S. Matthew Cairns	Reg. No. 42,378
John J. Piskorski	Reg. No. 35,647
Darryl P. Frickey	Reg. No. 34,603

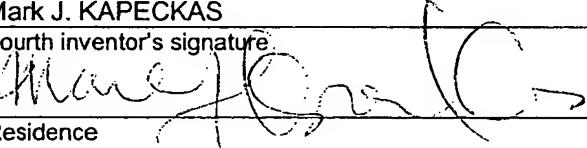
Send Correspondence to: John J. Piskorski  
 c/o EDWARDS & ANGELL, LLP  
 Dike, Bronstein, Roberts & Cushman, IP Group  
 130 Water Street  
 Boston, Massachusetts 02109, U.S.A.

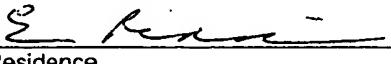
Direct Telephone Calls to:  
 (name and telephone number) John J. Piskorski  
 Telephone: (508) 229-7662  
 Facsimile: (508) 229-0254

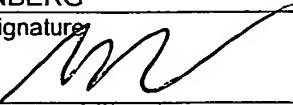
Full name of sole or first inventor	
David R. GABE	
Sole or first inventor's signature	Date:
Residence	
35 Tynedale Road, Loughborough, LE 11 3TA, Great Britain	
Citizenship	
United Kingdom	
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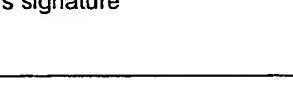
Full name of second inventor	
Andrew J. COBLEY	
Second inventor's signature	Date:
Residence	
7 Henderson Close, Allesley Village, Coventry CV5 9EY, Great Britain	
Citizenship	
United Kingdom	
Post Office Address	
Same As Above	

Full name of third inventor	
Leon R. BARSTAD	
Third inventor's signature	Date:
	11/10/01
Residence	
8 Regan Circle, Raynham, Massachusetts 02767, U.S.A.	
Citizenship	
United States of America	
Post Office Address	
Same As Above	

Full name of fourth inventor	
Mark J. KAPECKAS	
Fourth inventor's signature	Date:
	11-1-01
Residence	
33 Broad Street, Marlborough, Massachusetts 01752, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of fifth inventor	
Erik REDDINGTON	
Fifth inventor's signature	Date:
	11/1/01
Residence	
24 Annetta Road, Ashland, Massachusetts 01721, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of sixth inventor	
Wade SONNENBERG	
Sixth inventor's signature	Date:
	
11/1/01	
Residence	
RR1 472C, Edgartown, Massachusetts 02539, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of seventh inventor	
Thomas BUCKLEY	
Seventh inventor's signature	Date:
	
11/1/01	
Residence	
736 Washington Street, Dedham, Massachusetts 02026, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

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Priority Not Claimed

<hr/> <p>(Number)</p>	<hr/> <p>(Country)</p>	<hr/> <p>(Day/Month/Year Filed)</p>	<input type="checkbox"/>
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Direct Telephone Calls to:  
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 Telephone: (508) 229-7662  
 Facsimile: (508) 229-0254

Full name of sole or first inventor		
David R. GABE		
Sole or first inventor's signature		Date: 8.11.01
Residence		
35 Tynedale Road, Loughborough, LE 11 3TA, Great Britain		
Citizenship		
United Kingdom		
Post Office Address		
Same As Above		

Full name of second inventor		
Andrew J. COBLEY		
Second inventor's signature		Date: 5/11/01
Residence		
7 Henderson Close, Allesley Village, Coventry CV5 9EY, Great Britain		
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Full name of third inventor	
<b>Leon R. BARSTAD</b>	
Third inventor's signature	Date:
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<b>Mark J. KAPECKAS</b>	
Fourth inventor's signature	Date:
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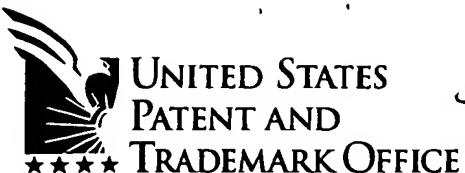
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Fourth inventor's signature	Date:
Residence	
33 Broad Street, Marlborough, Massachusetts 01752, U.S.A.	
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U.S.A.	
Post Office Address	
Same As Above	

Full name of fifth inventor	
<b>Erik REDDINGTON</b>	
Fifth inventor's signature	Date:
Residence	
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Post Office Address	
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Full name of sixth inventor	
Wade SONNENBERG	
Sixth inventor's signature	Date:
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U.S.A.	
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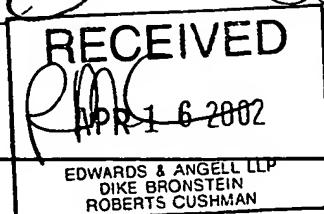
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Thomas BUCKLEY	
Seventh inventor's signature	Date:
	11-3-01
Residence	
736 Washington Street, Dedham, Massachusetts 02026, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	



REC REC/TP/DE

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(0329)



APRIL 09, 2002

PTAS

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DIKE, BRONSTEIN, ROBERTS & CUSHMAN LLP  
BOSTON, MA 02209

Chief Information Officer  
Washington, DC 20231  
[www.uspto.gov](http://www.uspto.gov)



\*102017088A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/04/2002

REEL/FRAME: 012566/0361  
NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:  
GABE, DAVID R.

DOC DATE: 11/03/2001

ASSIGNEE:  
COBLEY, ANDREW J.

DOC DATE: 11/03/2001

ASSIGNEE:  
BARSTAD, LEON R.

DOC DATE: 11/03/2001

ASSIGNEE:  
KAPECKAS, MARK J.

DOC DATE: 11/03/2001

ASSIGNEE:  
REDDINGTON, ERIK

DOC DATE: 11/03/2001

ASSIGNEE:  
SONNENBERG, WADE

DOC DATE: 11/03/2001

ASSIGNEE:  
BUCKLEY, THOMAS

DOC DATE: 11/03/2001

012566/0361 PAGE 2

ASSIGNEE:

SHIPLEY COMPANY, L.L.C.  
455 FOREST STREET  
MARLBOROUGH, MASSACHUSETTS 01752

SERIAL NUMBER: 09970224  
PATENT NUMBER:

FILING DATE: 10/02/2001  
ISSUE DATE:

PEARLENE FOSTER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



RE

02-12-2002

ocket No.: 50798

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Tab settings ➡ ➡ ➡



102017088

▼ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

David R. GABE  
Andrew J. COBLEY  
Leon R. BARSTAD  
Mark J. KAPECKAS  
Erik REDDINGTON

Wade SONNENBERG  
Thomas BUCKLEY

2 - 4 - 02

Additional names(s) of conveying party(ies)

Yes  No

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: November 3, 2001 (Completed)

2. Name and address of receiving party(ies):

Name: Shipley Company, L.L.C.

Address: 455 Forest Street

City: Marlborough State/Prov.: MA

Country: U.S.A. ZIP: 01752

Additional name(s) & address(es)  Yes  No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

Patent Application No. 09/970,224

Filing date October 2, 2001

B. Patent No.(s)

09/970,224

40.00 0F

Additional numbers

Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Peter F. Corless

Registration No. 33,860

Address: EDWARDS & ANGELL, LLP

Dike, Bronstein, Roberts & Cushman, IP Group

P.O. Box 9169

City: Boston State/Prov.: MA

Country: USA ZIP: 02209

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): ..... \$ 40.00

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

04-1105

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Peter F. Corless

Name of Person Signing

Signature

1/08/02

Date

7

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

**ASSIGNMENT**

WHEREAS, I, David R. GABE of Loughborough, United Kingdom, (hereinafter referred to as "Assignor"), have invented certain new and useful improvements in "INSERT PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE", for which an application for United States Letters Patent with the same title was filed with the U.S. Patent Office on October 2, 2001 and assigned U.S. Serial No. 09/970,224, and

WHEREAS, Shipley Company, L.L.C., located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, in consideration of the sum of One Hundred British Pounds (£100.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents to sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefore in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The Assignor also has assigned and transferred, and does hereby assign and transfer to the Assignee, its successors and assigns, his entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignor also hereby grants the law firm of EDWARDS & ANGELL, LLP, Dike, Bronstein, Roberts & Cushman, IP Group, the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this documents.

IN WITNESS WHEREOF, the Assignor has caused this Assignment to be executed.

Dated this 8<sup>th</sup> day of November, 2001.

  
David R. GABE

ASSIGNMENT

WHEREAS, I, Andrew J. Cobley of West Midlands, England, I, Leon R. Barstad of Raynham, Massachusetts, I, Mark J. Kapeckas of Marlborough, Massachusetts, I, Erik Reddington of Ashland, Massachusetts, I, Wade Sonnenberg of Edgartown, Massachusetts and I, Thomas Buckley of Dedham, Massachusetts, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE", for which an application for United States Letters Patent with the same title was filed with the U.S. Patent and Trademark Office on October 2, 2001 and assigned U.S. Application Serial No. 09/970,224, and

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NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for the above consideration, the Assignors have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

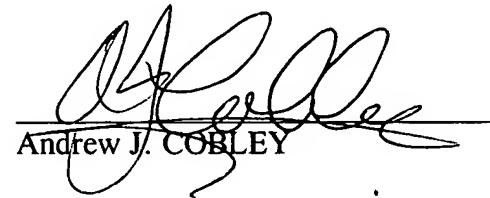
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IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Dated this 5<sup>th</sup> day of November, 2011.



Andrew J. COBLEY

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

Leon R. BARSTAD

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

Mark J. KAPECAS

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

Erik REDDINGTON

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

Wade SONNENBERG

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

Thomas BUCKLEY

ASSIGNMENT

WHEREAS, I, Andrew J. Cobley of West Midlands, England, I, Leon R. Barstad of Raynham, Massachusetts, I, Mark J. Kapeckas of Marlborough, Massachusetts, I, Erik Reddington of Ashland, Massachusetts, I, Wade Sonnenberg of Edgartown, Massachusetts and I, Thomas Buckley of Dedham, Massachusetts, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE", for which an application for United States Letters Patent with the same title was filed with the U.S. Patent and Trademark Office on October 2, 2001 and assigned U.S. Application Serial No. 09/970,224, and

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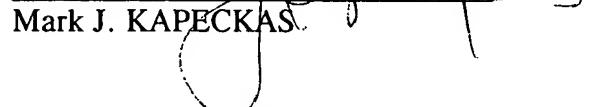
Dated this    day of                   ,       .

Andrew J. COBLEY



Leon R. BARSTAD

Dated this    day of NOVEMBER, 2001.



Mark J. KAPECKAS

Dated this    day of NOVEMBER, 2001.



Erik REDDINGTON

Dated this    day of November, 2001.



Wade SONNENBERG

Dated this    day of                   ,       .



Thomas BUCKLEY

ASSIGNMENT

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Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Andrew J. COBLEY

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Leon R. BARSTAD

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Mark J. KAPECAS

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Erik REDDINGTON

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Wade SONNENBERG

Dated this 3 day of November, 2001.

\_\_\_\_\_  
Thomas BUCKLEY

